## WHAT IS CLAIMED IS:

1	1. A method for processing a source document in a structured document format
2	including elements providing source content to render, wherein the source content comprises
3	code that is rasterized into output, comprising:
4	receiving the source document;
5	receiving a layout data structure providing formatting properties specifying a layout and
6	format of the content output;
7	processing the source document and the layout data structure to determine formatting
8	properties, including page divisions, for the content in the source document;
9	generating multiple page objects, wherein each page object includes source content and
10	formatting properties for one page; and
11	transmitting the page objects to a rasterizer to transform into renderable information
12	capable of being generated by an output device.

- 1 2. The method of claim 1, wherein the source document includes statements in a 2 first presentation language, further comprising:
- transforming the source document and source content therein into a result document in a second presentation language, wherein the result document includes the source content and the formatting properties provided by the layout data structure, wherein the formatting properties indicate page divisions of the content, and wherein the multiple page objects are generated from the result document.
- 1 3. The method of claim 2, wherein the layout data structure comprises a separate document from the source document.

1 4. The method of claim 2, wherein the first presentation language comprises the 2 Extensible Markup Language (XML) and wherein the second presentation language comprises

3 Extensible Stylesheet Language Formatting Objects (XSL-FO), and wherein the page layout

- 4 data structure comprises an XSL stylesheet.
- 1 5. The method of claim 2, wherein the page objects include formatting properties 2 in a third presentation language.
- 1 6. The method of claim 5, wherein the first presentation language comprises the
- 2 Extensible Markup Language (XML), wherein the second presentation language comprises
- 3 Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third presentation
- 4 language comprises the Mixed Object Document Content Architecture (MO:DCA), and
- 5 wherein the layout data structure comprises an XSL stylesheet.
- 7. The method of claim 5, wherein the third presentation language comprises a page description language.
- 1 8. The method of claim 2, wherein the page objects include content and formatting 2 properties in the second presentation language.
- 1 9. The method of claim 2, wherein the second presentation language comprises 2 Extensible Stylesheet Language Formatting Objects (XSL-FO).
- 1 10. The method of claim 1, wherein the page objects include content and formatting properties in a device independent presentation language.

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The method of claim 1, wherein the source content is in a page description 1 11. 2 language. The method of claim 1, wherein the source document and page objects include 12. 1 the formatting properties in a same presentation language. 2 The method of claim 1, wherein the page object includes content and formatting 1 13. 2 properties for one page. The method of claim 1, wherein the source document does not indicate page 14. 1 2 divisions for the content. A system for processing a source document in a structured document format 15. 1 including elements providing source content to render, wherein the source content comprises 2 3 code that is rasterized into output, comprising: means for receiving the source document; 4 means for receiving a layout data structure providing formatting properties specifying a 5 layout and format of the content output; 6 means for processing the source document and the layout data structure to determine 7 formatting properties, including page divisions, for the content in the source document; 8 means for generating multiple page objects, wherein each page object includes source 9 10 content and formatting properties for one page; and

means for transmitting the page objects to a rasterizer to transform into renderable

information capable of being generated by an output device.

The system of claim 15, wherein the source document includes statements in a 16. 1 first presentation language, further comprising: 2 means for transforming the source document and source content therein into a result 3 document in a second presentation language, wherein the result document includes the source 4 content and the formatting properties provided by the layout data structure, wherein the 5 formatting properties indicate page divisions of the content, and wherein the multiple page 6 objects are generated from the result document. 7 The system of claim 16, wherein the layout data structure comprises a separate 17. 1 document from the source document. 2 The system of claim 15, wherein the first presentation language comprises the 18.

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- Extensible Markup Language (XML) and wherein the second presentation language comprises 2
- Extensible Stylesheet Language Formatting Objects (XSL-FO), and wherein the page layout 3
- data structure comprises an XSL stylesheet. 4
- The system of claim 15, wherein the page objects include formatting properties 19. 1 in a third presentation language. 2
- The system of claim 19, wherein the first presentation language comprises the 20. 1
- Extensible Markup Language (XML), wherein the second presentation language comprises 2
- Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third presentation 3
- language comprises the Mixed Object Document Content Architecture (MO:DCA), and 4
- wherein the layout data structure comprises an XSL stylesheet. 5

1 21. The system of claim 19, wherein the third presentation language comprises a 2 page description language.

- 1 22. The system of claim 16, wherein the page objects include content and
- 2 formatting properties in the second presentation language.
- 1 23. The system of claim 16, wherein the second presentation language comprises
- 2 Extensible Stylesheet Language Formatting Objects (XSL-FO).
- 1 25. The system of claim 15, wherein the page objects include content and
- 2 formatting properties in a device independent presentation language.
- 1 26. The system of claim 15, wherein the source content is in a page description
- 2 language.
- The system of claim 15, wherein the source document and page objects include
- 2 the formatting properties in a same presentation language.
- 1 28. The system of claim 15, wherein the page object includes content and
- 2 formatting properties for one page.
- 1 29. The system of claim 15, wherein the source document does not indicate page
- 2 divisions for the content.
- 1 30. An article of manufacture for processing a source document in a structured
- 2 document format including elements providing source content to render, wherein the source

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the processor to perform:

the result document.

3	content comprises code that is rasterized into output, and wherein the article of manufacture
4	comprises code capable of causing a processor to perform:
5	receiving the source document;
6	receiving a layout data structure providing formatting properties specifying a layout and
7	format of the content output;
8	processing the source document and the layout data structure to determine formatting
9	properties, including page divisions, for the content in the source document;
10	generating multiple page objects, wherein each page object includes source content and
11	formatting properties for one page; and
12	transmitting the page objects to a rasterizer to transform into renderable information
13	capable of being generated by an output device.
1	31. The article of manufacture of claim 30, wherein the source document includes
2	statements in a first presentation language, and wherein the code is further capable of causing

transforming the source document and source content therein into a result document in a

second presentation language, wherein the result document includes the source content and the

formatting properties provided by the layout data structure, wherein the formatting properties

indicate page divisions of the content, and wherein the multiple page objects are generated from

- 1 32. The article of manufacture of claim 31, wherein the layout data structure comprises a separate document from the source document.
- 1 The article of manufacture of 31, wherein the first presentation language comprises the Extensible Markup Language (XML) and wherein the second presentation

- 3 language comprises Extensible Stylesheet Language Formatting Objects (XSL-FO), and
- 4 wherein the page layout data structure comprises an XSL stylesheet.
- 1 34. The article of manufacture of 31, wherein the page objects include formatting
- 2 properties in a third presentation language.
- The article of manufacture of 34, wherein the first presentation language
- 2 comprises the Extensible Markup Language (XML), wherein the second presentation language
- 3 comprises Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third
- 4 presentation language comprises the Mixed Object Document Content Architecture
- 5 (MO:DCA), and wherein the layout data structure comprises an XSL stylesheet.
- 1 36. The article of manufacture of claim 34, wherein the third presentation language
- 2 comprises a page description language.
- The article of manufacture of claim 31, wherein the page objects include
- 2 content and formatting properties in the second presentation language.
- 1 38. The article of manufacture of claim 31, wherein the second presentation
- 2 language comprises Extensible Stylesheet Language Formatting Objects (XSL-FO).
- The article of manufacture of claim 31, wherein the page objects include
- 2 content and formatting properties in a device independent presentation language.
- 1 40. The article of manufacture of claim 30, wherein the source content is in a page
- 2 description language.

- 1 41. The article of manufacture of claim 30, wherein the source document and page
- 2 objects include the formatting properties in a same presentation language.
- 1 42. The article of manufacture of claim 30, wherein the page object includes
- 2 content and formatting properties for one page.
- 1 43. The article of manufacture of claim 30, wherein the source document does not indicate page divisions for the content.